

**AMENDMENTS TO THE SPECIFICATION**

**Please replace the paragraph bridging pages 6 and 7 as follows:**

a1 The Figure 1 regenerator operates as follows. The signals of the various channels are separated in the ~~multiplexer~~ demultiplexer 2, modulated by respective modulators and then recombined in the multiplexer 14. The clock distribution unit supplies the clocks needed for modulation. The operation of the clock distribution unit is described in more detail hereinafter.